

7 b) a digital identifier connected to said sensing device and having a memory for
8 receiving and storing a spectral distribution of light representing the sample object from said
9 population;

10 c) said digital identifier also having a memory for receiving and storing sequential
11 spectral distribution from an additional object of the population;

12 d) said digital identifier having logic circuitry programmed to compare the subsequent
13 spectral distribution of the object with the spectral distribution of the sample object and to
14 provide an output indicating similarity between the distributions; and

15 e) an aiming light source for generating a beam of light to identify the location of the
16 objects reflecting the light.

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1 40. An apparatus as recited in claim 39 in which said identifier comprises a digital
2 signal processor.

Remarks

This application is a Continuation-In-Part of Application Serial No. 09/343,855 whose claims, 1-3, 5-11 and 13-23 were allowed pursuant to a Notice of Allowability dated 12/13/01. That application was abandoned after the claims were refiled in this C-I-P application as claim nos. 1-20 which, as a result, were copending. Claims 21 through 31 were added to the C-I-P application as filed. By this preliminary amendment, Claims 5, 7, 16, 29, 30 and 31 are being amended, Claims 32 to 40 are being added.


These voluntary amendments of claims 5-16 are directed to the form, not substance. On belief, they provide greater clarity, avoid questions of redundancy and are more readable.

The amendments are not added for purposes of patentability; neither is any subject matter being surrendered to the public.

Dependent claims 29-31 are being amended to correct a typing error, i.e., to state their dependency on Independent claim 28 rather than Dependent claim 27. Again, this amended is not being added with any intent to surrender any subject matter to the public, but to correct a typographical error.

A statement of prior art is being submitted with this amendment together with a marked up version of the amended claims to show the changes and with a check in the amount of \$ \$201.00 to cover the additional filing fee.

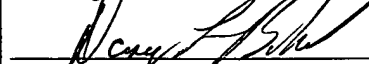
Respectfully submitted,



Dorsey L. Baker

Certificate of Express Mailing

I hereby certify that this Preliminary Amendment and the Information Disclosure Statement are being deposited with the United States Postal Service as Express Mail, Post Office to Addressee, Label No. EH810509165US in an express mail envelope addressed to: Commissioner of Patents and Trademarks, Washington, D.C. 20231 on June 19, 2001.



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Amended claim version with markings to show changes made.

1 5. (Amended). A low cost, lightweight, high speed spectral sensing method for
2 identifying and collecting information on the physical condition of objects for remote analysis
3 ~~of their physical condition~~, said method comprising the steps of :

4 a) sensing the spectral distribution of a plurality of segments of wave lengths of light
5 reflected by the object;

6 b) electronically measuring the magnitude of the segments of the reflected
7 wavelengths to define a wide spectrum distribution of light received from said object; and

8 c) transmitting the spectrum distribution through a port to a readable electronic
9 memory for subsequent analysis ~~and identification of the physical condition~~ of the object.

1 7. (Amended). The method recited in Claim 56 which includes the step ~~of receiving~~
2 ~~and~~ converting the electronic signals into digital information for storage, comparison or
3 analysis of the object and its condition.

1 16. (Amended). A low cost, lightweight apparatus for accumulating and transmitting
2 a wide spectral analysis of ~~an~~ objects including tissue and fluids for early analysis and
3 detection of ~~its~~ their condition , said apparatus comprising:

4 a) a sensor array for accumulating a plurality of charges reflecting a wide spectrum
5 color distribution of light segments reflected by an object to be analyzed;

6 b) a transmittal device connected to said array for transmitting said spectral
7 distribution to a remote analytical ~~memory~~ device for early analysis of the spectral
8 distribution of light of said object to detect its physical condition.

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1 29. (Amended). An apparatus as recited in claim 278 in which said sensing device is
2 calibrated such that the same segments of diffracted light wavelengths are repeatedly
3 separated and diffracted upon substantially the same area of the array.

1 30. (Amended). An apparatus as recited in claim 278 in which said sensing device is
2 aligned such that at least one segment of wavelengths of light is always diffracted upon the
3 same area of the array.

1 31. (Amended). An apparatus as recited in claim 278 in which said spectral
2 distribution comprises at least three data points.

1 32. (Amended). A method as recited in claim 5 in which the transmission occurs
2 through an RS 232 port.